Model 425
Owner's Guide

G425A

Limited Lifetime Consumer Warranty

Directed Electronics, Inc. ("DEI®") promises to the original purchaser to repair or replace with a comparable reconditioned model any DEI unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was professionally installed and serviced by an authorized DEI dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized DEI dealer; and the unit is returned to DEI, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. This warranty is non-transferable and is automatically void if: the original purchaser has not completed the warranty card and mailed it within ten (10) days of the date of purchase to the address listed on the card; the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. DEI, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. **TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DEI NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DEI DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DEI SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DEI IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR**

© 1999 Directed Electronics, Inc.

REINSTALLATION OF THE UNIT OR ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DEI OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DEI SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DEI DEALER'S PURCHASE PRICE OF THE UNIT. DEI SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized DEI dealer for details of the plan or call DEI Customer Service at 1-800-876-0800. DEI security systems, including this unit, are deterrents against possible theft. DEI is not offering a guarantee or insurance against vandalism, damage or theft of the automobile, its parts or contents; and hereby expressly disclaims any liability whatsoever, including without limitation, liability for theft, damage and/or vandalism. DEI does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this security system.

Make sure you have all of the following information from your dealer:

A clear copy of the sales receipt, showing the following:

- Date of purchase
- Your full name and address
- Authorized dealer's company name and address
- Type of alarm installed
- Year, make, model and color of the automobile
- Automobile license number
- Vehicle identification number
- All security options installed on automobile
- Installation receipts

© 1999 Directed Electronics, Inc.

Table of Contents

Limited Lifetime Consumer Warranty i
What Is Included 3
Important Information 3
- System Maintenance 3
- Your Warranty 4
- FCC/ID Notice 4

Transmitter Functions 4
- Standard Configuration 5

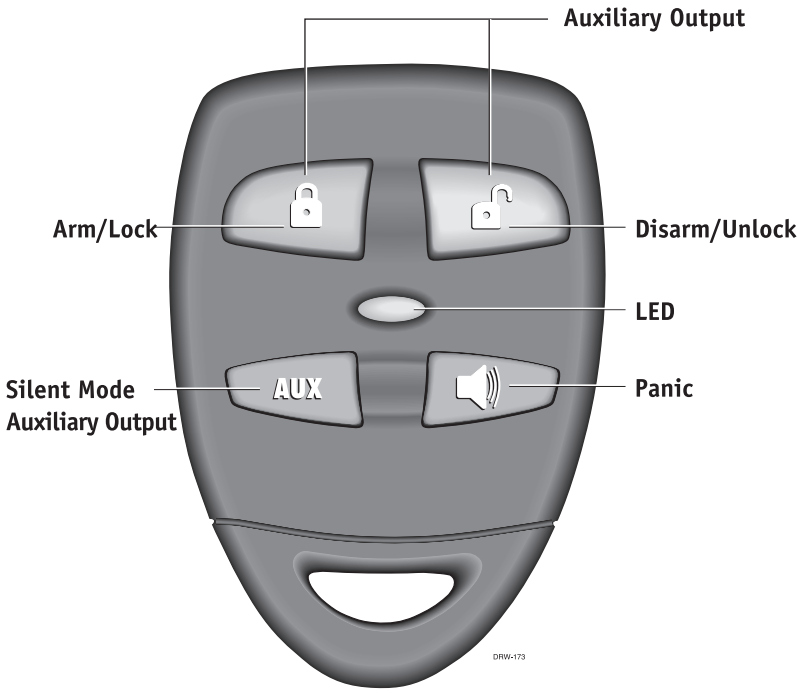
Using Your System 6
- Arming 6
- Disarming 8
- Disarming Without a Transmitter 8
- Silent Mode™ 9
- Panic Mode 9
- Valet Mode 9
- Remote Valet® 10

Nuisance Prevention® Circuitry (NPC) 10
Diagnostics 11
- Arming Diagnostics 11
- Disarming Diagnostics 12
- Table of Zones 12

Code Hopping™ 13
Owner Recognition 14
Rapid Resume Logic 14
Multi-Vehicle Operation 15
Installation Options 15
Programming Options 16
Security & Convenience Expansions 17
Glossary Of Terms 18
Quick Reference Guide (Removable) 21

© 1999 Directed Electronics, Inc.

Standard Configuration



© 1999 Directed Electronics, Inc.

What is Included

- A control module
- Two four-button remote transmitters
- A Stinger® DoubleGuard® dual-stage shock sensor (on-board the control module)
- A Revenger® Soft Chirp® six-tone programmable siren
- A red status LED indicator light
- A push-button Valet® switch

Important Information

By carefully reading this guide prior to using your system, you will maximize the use of this system and its features. This system has been designed to provide years of trouble-free operation. Due to its complexity, it must be installed by an authorized dealer only. Installation of this product by anyone other than an authorized dealer voids the warranty. All dealers are provided with preprinted dealer certificates to verify that they are authorized.

System Maintenance

This system does not require any specific maintenance. Each remote is powered by a miniature 3-volt battery, type 2032, that lasts approximately one year under normal use. When the battery weakens, the LED on the remote will dim and flash quickly whenever it is used.

© 1999 Directed Electronics, Inc.

Your Warranty

Your warranty card must be returned and the barcode serial number must not be removed. If the warranty card is not returned, you do not have a warranty. It is also necessary to keep your proof of purchase, which reflects that the product was installed by an authorized dealer. Make sure you receive the warranty card from your dealer.

FCC/ID Notice

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Transmitter Functions

Your vehicle security system is programmable, making it possible to assign any button on the remote to any specific receiver function. The transmitter initially comes programmed with the Standard Configuration, but may also be customized by an authorized dealer. Unless otherwise specified, all instructions in this manual assume operation using the Standard Configuration.

© 1999 Directed Electronics, Inc.

Standard Configuration

Your vehicle security system is programmable, making it possible to assign any button on the remote transmitter to any specific receiver function. The remote transmitter initially comes programmed with the Standard Configuration, but may also be customized by an authorized dealer. Unless otherwise specified, all instructions in this owner's guide assume operation using the Standard Configuration.

Button

The arming and locking functions are controlled by pressing this button for one second.

Button

The disarming and unlocking functions are controlled by pressing this button for one second.

Button

Silent Mode™ and an optional auxiliary function are controlled by pressing this button. Silent Mode™ works by pressing

for less than one second. An optional auxiliary function, such as trunk release, is controlled by pressing and holding

for 1.5 seconds.
The auxiliary output controls _____.

Button

Panic Mode is activated by pressing and holding for one second.

© 1999 Directed Electronics, Inc.

and Buttons

An optional auxiliary convenience or expansion function that you have added to your system can be activated by pressing these buttons simultaneously.

The auxiliary output controls _____.

Using Your System

The buttons described in all instructions in this manual correspond to the standard configuration, unless otherwise specified.

Arming

You can arm the security system and lock your vehicle's doors (if connected) by pressing for one second. When the system arms, you will hear a short siren sound (chirp) and the parking lights will flash once. Once armed, the status LED will flash twice per second to indicate that the system is actively protecting your vehicle. If you hear a second chirp after arming and notice that the status LED is flashing in a grouped pattern, this signals Bypass Notification, which is described in the Diagnostics section of this manual.

The system can also be programmed to arm itself automatically 30 seconds after the ignition is turned off and the last vehicle door has been closed (called Passive Arming). Once the 30-second countdown period initiates, the status LED will flash twice as fast as it does when the system is armed. After 20 seconds, the siren will chirp once

© 1999 Directed Electronics, Inc.

to warn that the system has only 10 seconds remaining prior to arming. The system is not actually armed at this point. The system arms itself at the 30-second mark. At this point, the vehicle doors will also lock (if programmed for Passive Locking) and the status LED will begin flashing twice per second to indicate armed status. If Passive Locking is activated, care must be taken to prevent the keys from being locked in the vehicle.

> **NOTE:** If any protected entry point (such as a door or switch-protected trunk or hood) is open, Passive Arming will not engage. Additionally, each time a sensor is triggered during the 30-second arming countdown, the countdown starts over.

Arming your security system protects your vehicle as follows:

- Light impacts trigger a Warn Away® Response, causing the siren to chirp and the parking lights to flash for a few seconds.
- Heavy impacts trip a Triggered Sequence, causing the Soft Chirp® siren to sound continuously and the parking lights to flash for 30 seconds.
- If a door is opened, the siren immediately starts chirping and the parking lights start flashing to provide an instant response. Three seconds later, the siren output changes to a continuous blast. This two-stage progressive response allows you time to disarm the system with your transmitter if the door is inadvertently opened while the system is armed.
- Turning on the ignition key triggers the same two-stage Progressive Response as opening a door.
- If installed, the Failsafe® Starter Kill Relay (optional feature) prevents the vehicle's starter from cranking.

© 1999 Directed Electronics, Inc.

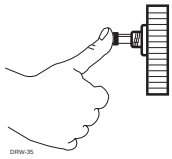
Disarming

Press to disarm the security system and unlock the doors (if connected). Disarming is confirmed when the parking lights flash twice and the siren emits two chirps. The siren chirping either four or five times when disarming indicates Tamper Alert, which is described in the Diagnostics section of this manual.

Disarming Without a Transmitter

This feature allows you to disarm the system without the remote transmitter, in the event that the transmitter is lost, damaged or disabled. To disarm the system without a remote transmitter, you must have the vehicle's ignition key and know where the Valet switch is located. Be sure to check with your installer at the time of installation for both the location and the preset response (1-5 presses) of the Valet switch.

To disarm the system, turn the ignition key on and press the Valet switch the preset number of times within 15 seconds. If the system does not disarm, you may have waited too long; turn the ignition off and repeat the process.



IMPORTANT: The Valet switch can be programmed to respond to 1-5 presses for the disarm function. You must check with the installer to verify the programming for your individual unit.

LOCATION OF VALET SWITCH_____

© 1999 Directed Electronics, Inc.

Silent Mode

Use Silent Mode to temporarily turn off the arm or disarm confirmation chirps by briefly pressing

before either arming or disarming. The confirmation chirp(s) will be eliminated for that one operation only. To permanently turn off the arm and disarm chirps, contact your dealer.

> **NOTE:** The Warn Away Response to lighter impacts is bypassed if the system is armed using the Silent Mode. This ensures that the siren does not chirp in an environment where you don't want chirps to be emitted. The system is still capable of being triggered by heavier impacts; only the Warn Away Response generated by light impacts is bypassed.

Panic Mode

If you are threatened in or near your vehicle, press to trigger your alarm system and attract attention. The siren will sound and the parking lights will flash for 30 seconds. To stop the Panic Mode at any time, press , , or .

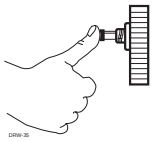
Valet® Mode

Valet Mode prevents your system from arming and triggering either automatically or with the transmitter. In Valet Mode, all convenience functions (door locks, trunk release, etc.) will remain operational. This feature is useful when washing or servicing your vehicle.

© 1999 Directed Electronics, Inc.

To enter or exit Valet Mode with the Valet switch:

1. Turn the ignition on.
2. Turn the ignition off.
3. Press and release the Valet switch within 10 seconds.



The status LED will light steadily if you are entering Valet Mode and will turn off if you are exiting Valet Mode.

Remote Valet®

You can also activate Valet Mode with the remote transmitter:

1. Open any vehicle door.
2. Press .
3. Press .
4. Press again.

The status LED will light solid if you are entering Valet Mode and will turn off if you are exiting Valet Mode.

Nuisance Prevention® Circuitry

Your system has Nuisance Prevention® Circuitry (NPC™) to prevent annoying repetitive trigger sequences caused by faulty door pin switches or environmental conditions such as thunder, jackhammers, airport noise, etc.

Here's how it works: If the alarm is triggered by the same sensor or switch three times within a 60 minute period, your system interprets this pattern of triggers as false alarms. After the third trigger,

© 1999 Directed Electronics, Inc.

your system ignores, or bypasses, that sensor or switch (along with any other sensors or switches sharing the same zone) for 60 minutes. If the bypassed sensor is triggered again while it is already being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that is continually being triggered will remain bypassed.

> **NOTE:** Arming and disarming the system does not reset the Nuisance Prevention Circuitry. The only ways to reset a bypassed zone are for that zone not to be triggered for 60 minutes or to turn the ignition key on. When testing your system, it is important to remember that this circuitry can cause zones to be bypassed and appear to not work. If five chirps are heard when disarming the system, the NPC was engaged. To clear the memory, turn the ignition key on.

Diagnostics

The microprocessor at the heart of your system has the ability to constantly monitor all of the switches and sensors connected to it. It can detect any faulty switches or sensors and prevent them from disabling the entire system. It can also record and report any triggers that occur while you are away from your vehicle.

Arming Diagnostics

If the security system is armed at the same time that an input is active (door opening, sensor triggering, etc.), you will hear one chirp to indicate arming and a second chirp to indicate Bypass Notification. A Bypass Notification chirp means that the system ignores the

© 1999 Directed Electronics, Inc.

input that was active when the system was armed, until that input ceases. Three seconds after that input ceases, the system will resume normal monitoring. For example, if your vehicle has an interior light exit delay and you arm the system before the light turns off, you may hear a second Bypass Notification chirp. Once the light turns off, however, the system resumes normal monitoring.

> **NOTE**: Bypass Notification does not occur when the system is in Silent Mode or if the chirps have been programmed by the installer not to sound.

Disarming Diagnostics

Your system has a Tamper Alert feature that notifies you of system triggers that occur while you are away from your vehicle. If you hear four chirps when you disarm, this indicates that the system was triggered in your absence. If you hear five chirps when you disarm, this indicates that a specific zone was triggered so many times that the Nuisance Prevention Circuitry has bypassed that zone. In both cases, the pattern of the flashing status LED will indicate which zone was triggered (see Table of Zones). The system retains this information in its memory and will continue to chirp four or five times each time the system is disarmed, until the next time the ignition key is turned on.

Table of Zones

A zone is represented by the number of LED flashes used by the system to identify a particular type of input. Standard input assignments are listed in the following table, along with spaces to write in any optional sensors or switches that have been installed.

© 1999 Directed Electronics, Inc.

ZONE (Number of LED Flashes)	DESCRIPTION	DEALER-INSTALLED OPTIONS
1	Instant trigger—often used for hood/trunk pinswitches	
2	Instant trigger—a heavier impact detected by the Doubleguard® Shock Sensor	
3	Door switch trigger	
4	Instant trigger—for optional sensors	
5	Ignition trigger	

Code Hopping®

The receiver and transmitter use mathematical formulas called algorithms to change their codes each time the transmitter is used. This Code Hopping technology has been developed to increase the security of the unit. By following this set code sequence, the receiver and transmitter stay synchronized, even if the transmitter is used out of range of the vehicle. If, however, transmitter buttons are pressed too many times out of range of the vehicle, or the battery is removed, the transmitter may get temporarily out of sync and fail to operate the system. To resynchronize the transmitter, simply press several times within range of the vehicle. The system will automatically resynchronize and the transmitter will respond normally.

© 1999 Directed Electronics, Inc.

Owner Recognition

Using a system programming device, your dealer can program specific settings for each transmitter that is used with your system. The system is then capable of recalling the individual settings assigned to each transmitter. This Owner Recognition feature allows up to four users of the same system to have four different settings that meet their individual needs.

> **NOTE:** Owner Recognition cannot be programmed without a system programming device and the necessary software. Check with your dealer for more information.

Rapid Resume Logic

Your DEI vehicle security system stores its current operational state in non-volatile memory, so that if power is lost and then reconnected, the system will recall the stored state from memory. For example, if the system is in Valet Mode when the battery is disconnected, it will still be in Valet Mode when the battery is reconnected. This applies to all system features, including arming, disarming, and Valet Mode.

© 1999 Directed Electronics, Inc.

Multi-Vehicle Operation

Your DEI security system has the ability to interface with other DEI vehicle security systems to control multiple vehicles using the same remote transmitter. Contact your local DEI dealer for more details.

Installation Options

Your security system has some options that may require extra parts and labor. One of these options, Progressive Unlocking, configures the system so that when you press to disarm, only the driver's door unlocks. Pressing again within 15 seconds unlocks the remaining doors.

© 1999 Directed Electronics, Inc.

Programming Options

Programming options control your system's normal, operational set-up. Most options do not require additional parts, but some may require installation labor. The system's programming options are listed below:

The factory default settings are in **bold**:

- **Active** Arming (only with the transmitter) or Passive Arming (automatic arming 30 seconds after the last door is closed).
- Arming and disarming confirmation siren chirps, **on** or off.
- Ignition controlled door lock feature, **on** or off. With this feature on, the doors will lock three seconds after the ignition key is turned on, and unlock when the ignition is turned off. The system also prevents the doors from locking when the ignition is turned on while any vehicle door is open.
- **Active** Door Locking (only when arming with the transmitter) or Passive Door Locking (with Passive Arming).
- Valet Switch Pulse Count: The number of times the vehicle's Valet switch needs to be pressed to disarm the security system. One to five pulses can be programmed, with the default setting being **one pulse**.
- Siren Tones and Chirp Volume: The output of the soft chirp siren consists of six different tones in sequence. Your dealer can eliminate any of these tones, resulting in a unique, easily identifiable siren sound. The chirps can be programmed for either full volume or **six decibels quieter** than the full alarm blast.

© 1999 Directed Electronics, Inc.

Security & Convenience Expansions

Many options can be added to your system for increased security, protection and convenience. A few of these options are listed below. Contact your dealer for a complete list of options compatible with your system.

Failsafe® Starter Kill Relay: An automatic switch controlled by the security system that prevents the starter from cranking whenever the system is armed. The vehicle is never prevented from cranking when the system is disarmed, in Valet Mode, or if the Starter Kill Relay fails.

Digital Failsafe® Starter Kill: The 103T Digital Failsafe Starter Kill can be used as a stand-alone starter kill or as a serial controller to enhance your vehicle's security system. With the 103T, you can control your security system's basic functions from an illuminated, dash-mounted keypad. Simply enter coded key sequences to control arming, disarming, panic and Valet Mode functions.

Valet® Start System: For the ultimate convenience option, the Valet Start System can start your vehicle, monitor engine functions, and power your climate control system with a push of a button. Over-rev protection, open-hood lockout, brake pedal shutoff, and automatic timer shutoff are also included. This option is available only for automatic transmission, fuel-injected gasoline vehicles.

Power Window Control: You can add various power window control features with either the 529T Power Window Roll-Up Module or the 530T Window Automation System.

© 1999 Directed Electronics, Inc.

Glossary of Terms

Control Module: The "brain" of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor that monitors your vehicle and controls all of the alarm's functions.

Input: Any physical connection to the security system. An input can be provided through a sensor, pinswitch or by existing systems in the vehicle, such as ignition or courtesy lights.

LED: A red light mounted inside the vehicle, at a location determined by the installer. The LED indicates the status of your system and also reports triggers and faults in the system or sensors.

Siren: A noise generating device, usually installed in the engine compartment of the vehicle. The siren generates the chirps and tones heard when the system is triggered.

Stinger® Double-Guard® Shock Sensor: A dual-stage shock sensor, which is located on the control module, and is designed to detect impacts to the vehicle or glass.

Transmitter: A hand-held, remote control that operates the various functions of the security system.

Trigger or Triggered Sequence: The "setting off" or "tripping" of the alarm. A Triggered Response consists of the siren sounding and the parking lights flashing for 30 seconds.

Valet Switch: A small, push-button switch mounted inside the vehicle, at a location determined by the installer. This switch is used

© 1999 Directed Electronics, Inc.

to override the alarm when a transmitter is lost or damaged, or can be used to put the system into Valet Mode.

Warn Away® Response: Light impacts to the vehicle generate the Warn Away Response, which consists of several seconds of siren chirps and flashing parking lights.

Zone: A zone is a separate input that the alarm can recognize as unique. Each input to the system is connected to a particular zone. Two or more inputs may share the same zone.

© 1999 Directed Electronics, Inc.

Notes

© 1999 Directed Electronics, Inc.

Cut along dotted line and fold for a quick and easy reference to keep in your purse or wallet.

Quick Reference Guide

To arm using your remote

- Press for one second to arm the system and lock the doors (if the door locks are connected to the system). When the system arms, you will hear one chirp and the parking lights will flash once.

To disarm using your remote

- Press to disarm the system and unlock the doors (if the door locks are connected to the system). When the system disarms, you will hear two chirps and the parking lights will flash twice.

Disarming without a transmitter

- To disarm without a transmitter, you must have the vehicle's ignition key and know where the Valet switch is. (Contact your installer for both the location and the preset number of presses required for the Valet switch). Turn on the ignition key. Press the Valet switch the pre-programmed number of times within 15 seconds. If the system does not disarm, you may have waited too long; turn the ignition off and repeat the process.

To enter or exit Valet Mode

- To enter or exit Valet Mode, turn the ignition key on and then off. Then press and release the Valet switch within 10 seconds. The status LED will light steadily if you are entering Valet Mode and will turn off if you are exiting Valet Mode.

To activate Panic Mode

- Press and hold for one second.

To exit Panic Mode

- Press , , or .

To activate Silent® Mode

- Press briefly before arming or disarming. The confirmation chirp(s) will be eliminated for that one operation only.

© 1999 Directed Electronics, Inc.

The company behind this system is Directed Electronics, Inc.

Since its inception, DEI® has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of more than 20 patents in the field of advanced electronic technology, DEI is ISO 9001 registered.

Quality Directed Electronics products are sold and serviced throughout North America and around the world.

Call **(800) 477-1372** for more information about our products and services.

QS 9000
REGISTRATION NO.
0 0 8 4 0 1

ISO 9001

DEI is an ISO 9001 registered company.

DEI is committed to delivering on time, the best products we know how to provide, and to constantly work with our customers and vendors to improve our products, quality, delivery and customer friendly features.

Directed Electronics, Inc.
Vista, CA 92083
www.dei.com
© 1999 Directed Electronics, Inc. - All rights reserved
G425A 2/00